

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 09163990
PUBLICATION DATE : 24-06-97

APPLICATION DATE : 27-09-96
APPLICATION NUMBER : 08256747

APPLICANT : CHUGAI PHARMACEUT CO LTD;

INVENTOR : IRIE KENJI;

INT.CL. : C12N 15/09 C07H 21/04 C12N 9/12
///(C12N 9/12 , C12R 1:91), (C12N
9/12 , C12R 1:685), (C12N 9/12 ,
C12R 1:865), (C12N 9/12 , C12R
1:19)

TITLE : NEW KINASE BEARING INFORMATION
TRANSMISSION SYSTEM OF
TGF-BETA FAMILY

```

ATG TCG ACA GCC TCC GCC 174
Met Ser Thr Ala Ser Ala
1 5
GCC TCG TCC TCC TCC TCG TCT TCT GCC AGT GAG ATC ATC GAA GCG CCG 222
Ala Ser Ser Ser Ser Ser Ser Ser Ala Ser Glu Met Ile Glu Ala Pro
10 15 20
TCG CAG GTC CTG AAC TTC GAA GAG ATC GAC TAC AAG GAG ATC GAG CTC 270
Ser Glu Val Leu Asn Pro Glu Glu Ile Asp Tyr Lys Glu Ile Glu Val
25 30 35
:
:
:
AAC AAA AGC CTT TCT ACT TAT TAC CAG CAA TGC AAA AAA CAA CTA GAG 1804
Asn Lys Ser Leu Ser Thr Tyr Tyr Glu Glu Cys Lys Lys Glu Leu Glu
555 560 565
GTC ATC AGA AGC CAA CAG CAG AAA CGA CAA GCC ACT TCA TGATTCTCTG 1903
Val Ile Arg Ser Glu Glu Glu Lys Arg Glu Gly Thr Ser
570 575

```

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a new DNA coding a kinase-active polypeptide subject to activation by a transforming growth factor- β having a specific amino acid sequence, and to be used for e.g. producing enzymes useful for retrieving medicinal agents suppressing or promoting information transmission.

SOLUTION: This new DNA is such one as to code a kinase-active polypeptide subject to activation by a transforming growth factor- β (TGF- β) having the amino acid sequence covering the 23rd Ser through 579th Ser of an amino acid sequence of the formula, or an amino acid sequence modified by addition or elimination of one to several amino acids to or from the above partial amino acid sequence, and/or by substitution with other amino acid(s). This DNA is useful for e.g. producing kinase-active polypeptides useful for e.g. retrieving medicinal agents suppressing or promoting cell information transmission. This new DNA is obtained by screening with a probe a cDNA library prepared by using a mRNA collected from a mouse interleukin-3 dependent cell system.

COPYRIGHT: (C)1997,JPO